Taylor Larrechea P: 20,24,26

Dr. Middleton PHYS B2 HW (4:3,7

Ch. 20 4-17-17

Problems

20.P.20 
$$f = 2.0 \times 10^6 \text{ Hz}$$
  $v = 2.5$   
 $v = 6,420 \text{ M/s}$   $n = \frac{6}{3}$ 

a.) 
$$A = \frac{V}{P} = 3.21 \text{ mm}$$

$$f= \%$$
  $f= 9.35 \times 10^{10} \text{Hz}$   $V=3.0 \times 10^{3} \text{M/s}$   $N=3.21 \times 10^{3} \text{M}$ 

20.2.24

L=3.0 x10<sup>-2</sup>m V=3.0 x10<sup>8</sup>m/s

q.)

V=3EB M/3 2=3E(-2) M

b.) P= 1/P

$$\frac{1}{p} = \frac{2}{V}$$

9= 20E3 W

v= Af

V= 3E&M/S

f= 10 6Hz P= 167MS

$$f = \frac{1}{2}$$
  $f = 8.57 \times 0^8 \text{ Hz}$   $V = 3 \times 3 \times 10^8 \text{ Hz}$ 

2=35E(-2) M

$$p$$
.)  $v = \frac{\wedge}{c}$ 

$$V = \frac{c}{n}$$
  $V = 2.0 \times 10^{8} M/9$   $A = \frac{V/f}{f}$   $L = 23 cm$ 

f= 8.57 HZ L= 0.23 M

V=ZE8M/S f=8.57×108 HZ

## Conceptual

20.ca.3

It reached it's maximum before the constant value of 1mm

20.60.7

V= 24 M/S

A = 0.04M

2= 12M

f= 2H2

A = 0.04M

2= 12m

f= 2H2